

REMARKS

New claims 13-16 have been added, therefore, claims 1-16 are all the claims pending in the application. Claims 5, 6 and 8-12 have been withdrawn from consideration pursuant to a restriction requirement.

Applicants thank the Examiner for considering the references cited with the Information Disclosure Statement filed on May 24, 2004.

Applicants also thank the Examiner for acknowledging the claim for priority under 35 U.S.C. § 119, and receipt of a certified copy of the priority document.

Objections to the Specification

The Examiner has objected to the specification for containing numerous typographical errors. Applicants believe that these errors resulted from the electronic scanning process conducted by the Office since they are not visible in Applicants' copy of the specification as filed, nor in the electronic file wrapper. Therefore, Applicants are submitting a substitute specification under 37 C.F.R. § 1.125 to correct the numerous typographical errors. However, since the typographical errors are not visible to Applicants, only a clean copy of the substitute specification is attached. Applicants submit that no new matter has been added by the substitute specification. In light of the above, the Examiner should withdraw the objections to the specification.

Objections to the Claims

Claim 3 has been objected to as having numerous typographical errors. As with the typographical errors in the specification, it is apparent that these errors were also caused during

electronic scanning of the claims. Claim 3 has not been amended but is included in the listing of claims set forth above. Applicants submit that the objection to claim 3 should be withdrawn.

Claim Rejections

Claims 1-4 and 7 have been rejected under 35 U.S.C. § 102(b) as allegedly being anticipated by U.S. Patent No. 5,949,654 to Fukuoka ("Fukuoka"). Applicants traverse these rejections.

With regard to independent claim 1, Fukuoka does not disclose or suggest at least a metal substrate having a recess large enough to fully receive the electronic component wherein the electronic component is mechanically fixed to the bottom surface of the metal substrate, as recited in claim 1.

Fukuoka discloses semiconductor elements 102 which are mounted on a multilayer ceramic substrate 101 on which wiring circuits 104 are formed, wherein the area in which the semiconductor elements are mounted is covered by a metal cap 103 which is sealed to the multilayer ceramic substrate by a Kovar weld ring 110 (Fig. 1; column 16, lines 27-33; column 17, lines 13-20). The shielding effect to electromagnetic waves is inferior for ceramic compared to metal, therefore, Fukuoka has a lower shielding effect than Applicants' claimed electronic device. Further, Fukuoka's ceramic substrate radiates heat less efficiently than Applicant's metal substrate.

On the other hand, Applicant's claimed metal substrate 12 as shown in Applicant's Fig. 3, and more clearly in Fig. 5B, forms a recess 12a having a bottom to which the electronic component 11 is mechanically fixed. The metal substrate almost entirely encloses the electronic component together with a metal lid 14. Therefore, Applicants' claimed electronic device has a

higher electromagnetic shielding effect. In addition, the metal substrate having a metal plate wider than the electronic component provides greater heat radiation. Clearly, the metal substrate of Applicant's invention is different than the multilayer ceramic substrate of Fukuoka.

For at least the above reasons, independent claim 1 is patentable over Fukuoka. Claims 2-4 and 7, which depend from claim 1, are patentable at least by virtue of their dependency.

New Claims

Applicants have added new claims 13-16. These claims are supported in the specification as filed at least, for example, at pages 10 and 18. Applicants submit that no new matter has been added. Claims 13-16 depend from claim 1 and are therefore patentable at least by virtue of their dependency.

Conclusion

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/713,019

Attorney Docket No. Q78599

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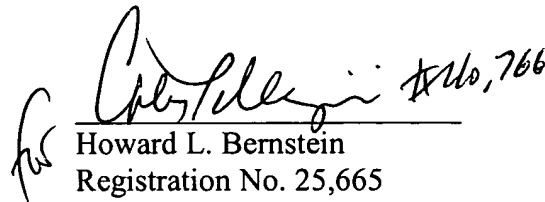
Respectfully submitted,

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE

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CUSTOMER NUMBER


Howard L. Bernstein
Registration No. 25,665

Date: June 26, 2006